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142649 PIGMENT
71034 STERIC
350635 ORGANIC
16611 AMPHIPHILIC

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142649 PIGMENT
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350635 ORGANIC
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(ORGANIC(W) IONIC)
16611 AMPHIPHILIC

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142649 PIGMENT
71034 STERIC
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L3 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:265513 HCAPLUS

DOCUMENT NUMBER: 134:297228

TITLE: Modified pigments having **steric** and
amphiphilic groups

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PATENT ASSIGNEE(S): Cabot Corporation, USA

SOURCE: PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001025340	A1	20010412	WO 2000-US26957	20000929
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1220879	A1	20020710	EP 2000-967166	20000929
EP 1220879	B1	20030507		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
JP 2003511513	T2	20030325	JP 2001-528499	20000929
AT 239770	E	20030515	AT 2000-967166	20000929
PRIORITY APPLN. INFO.:			US 1999-157284P	P 19991001
			WO 2000-US26957	W 20000929

AB Various modified **pigment** products are described which are preferably capable of being dispersed in a variety of materials such as

coatings, inks, toners, films, plastics, polymers, elastomers, and the like. The modified pigments are pigments having attached (a) at least one steric group and (b) at least one organic ionic group and at least one amphiphilic counterion, wherein the amphiphilic counterion has a charge opposite to that of the organic ionic group. In addition, inks, coatings, toners, films, plastics, polymers, elastomers, and the like containing the modified pigment products of the present invention are described. Methods of making the modified pigment products are also described. Thus, mixing 600 g carbon black (surface area 200 m²/g; DBP absorption 117 mL/100 g) with 31.5 g sulfanilic acid, adding a solution of 6.2 g of NaNO₂ in 600 g of water, mixing for about 10 min, and drying in an oven at 70° gave a carbon black bearing 0.22 mmol C₆H₄SO₃Na groups, 20 g of which was combined with 26.9 g H₂NC₆H₄CO₂(C₃H₆O)_nC₄H₉ and 2.3 g methanesulfonic acid in a mixture of 50 mL water and 150 mL 2-butanone, stirred at room temperature

for

1 h and at 60° for 1 h, mixed with a mixture of 4-CH₃CH(NH₂)C₆H₄(OC₃H₆)₃OH 7.5, methanesulfonic acid 0.38, water 40 and 2-butanone 40 g, stirred for 1 h and worked up to give a carbon black bearing polymeric group and amphiphilic salt of C₆H₄SO₃- group.

REFERENCE COUNT:

9

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT